

GOVERNMENT OF INDIA  
MINISTRY OF RAILWAYS  
(RAILWAY BOARD)

No. 2021/Track-III/TK/12

New Delhi, Dtd. 17.05.2023

Addressed to:  
As per list attached.

**Sub: Correction Slip No. 2 to Indian Railway Track Machine Manual (IRTMM-2019).**

The Ministry of Railways (Railway Board) have decided to make correction/addition as indicated in the enclosed Correction Slip No. 2 to relevant para of Indian Railway Track Machine Manual-2019.

This has the approval of Board (AMCE).

*Vijay Singh*  
*17/5/2023*

(Vijay Singh)  
Director Track (MC)  
Railway Board

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2. The Deputy Controller & Auditor General of Indian Railways, Room No. 224, Rail Bhawan, New Delhi.

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Correction Slip No.2

Annexure-7.7 (Page No. 225-232) of INDIAN RAILWAY TRACK MACHINE MANUAL, SEPTEMBER-2019 shall be replaced as following:

Annexure 7.7

Infringement to Indian Railways Schedule of Dimension by Various Track Machines

(A) Infringement to Schedule of Dimensions - 1939

SN	Name of the Machine	Make	Transpo-rtation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
1.	Continuous Tamping Machine (09 - 32 CSM)	M/s Plasser		(i) Min. dia of new wheel tread measured at 63.5 mm from wheel gauge face.	730	914	60	40
				(ii) Min. rigid wheel base.	1800	1830		
2.	Points & Crossing Tamping Machine (UNIMAT 08-275-3S)	M/s Plasser		(i) Min. dia of new wheel tread measured at 63.5 mm from wheel gauge face.	730	914	60	40
				(ii) Min. rigid wheel base.	1800	1830		
3.	Dynamic Track Stabilizer (DGS-62N)	M/s Plasser		(iii) Max. distance between any two adjacent axles.	12200	11890		
				(i) Min. dia of new wheel tread measured at 63.5 mm from wheel gauge face	730	914	60	50
4.	Ballast Cleaning Machine (RM-80)	M/s Plasser		(ii) Min. rigid wheel base for bogie.	1500	1830		
				(i) Min. dia of new wheel tread measured at 63.5 mm from wheel gauge face.	900	914		
				(ii) Max. distance apart of bogie centres.	22200	14785		
				(iii) Max. length of bogie or roof.	29360	21340	40	30
				(iv) Max. length of under frames over headstocks.	29360	21030		
				(v) Max. length over side buffers.	30600	22300		
				(vi) Max. distance apart between adjacent axles.	20370	11890		

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension in as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
5.	Ballast Regulator (66-4)	M/s -Kershaw USA		(i) Min. dia of new wheel tread measured at 63.5 mm from wheel gauge face. 4-wheeler vehicles.	838.2	914	50	40
				(ii) Max. length of body or roof for 4-wheeler vehicles.	9120	8540		
				(iii) Max. length over side buffers	10389	9810		
6.	Track Relaying Train (P-811-S)	M/s Tampar Corporation, USA		(i) Min. dia of new wheel tread measured at 63.5 mm from wheel gauge face.	838.2	914	5	50
				(ii) Min. rigid wheel base for bogie truck.	1727.2	1830		
				(iii) Max. distance apart between any two adjacent axles	12072.94	11890		
7.	Points & Crossing Cleaning Machine (RM-76 UHR)	M/s Plasser		(i) Min. dia. of new wheel tread measured at 63.5 mm from wheel gauge face.	900	914	40	30
				(ii) Max. distance apart of bogie centre.	19500	14785		
				(iii) Max. length of body or roof for bogie vehicles.	23490	21340		
				(iv) Max. length of under frames over headstocks.	23490	21030		
				(v) Max. length over side buffers	24730	22300		
				(vi) Max. distance apart between two adjacent axles	17670	11890		
8.	Points & Crossing Changing Machine (AMECA-T-28)	M/s -Amecca Italy		(i) Wheel Gauge: Maximum	1604	1602		
				Minimum	1598	1599	10	
9.	Ballast Cleaning Machine (RMS0-92-I)	M/s Plasser		(i) Min. dia on wheel tread.	900	914		
				(ii) Max. distance apart of bogie centre	22200	14785		
				(iii) Max. length of body	28300	21340		
				(iv) Max. length over head stock	28300	21030	50	40
				(v) Max. length over side buffers	29540	22300		
				(vi) Max. distance apart between any two adjacent axles.	20370	11890		
10.	Shoulder Ballast Cleaning Machine (FRM-80)	M/s Plasser		(i) Min. dia on wheel tread.	900	914		
				(ii) Max. distance apart of bogie centres	16000	14785		
				(iii) Max. length of body	38200	21340		
				(iv) Max. length over head stocks	38200	21030	40	30
				(v) Max. length over side buffers.	39470	22300		
11.	UTV 502 L	M/s -Lamper Corporation, USA		(vi) Max. distance apart between any two adjacent axles.	14170	11890		
				(i) Min. dia on new wheel tread.	838.2	914	60	40
				(ii) Max. rigid wheel base.	8000	6100		
				(iii) Max. length of body for 4-wheel vehicle 3200 mm wide.	11303	8540		
				(iv) Max. length over head stocks.	11303	8540		
				(v) Max. length over side buffers.	12522	9810		

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension on as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
12	P & C Tamping Machine 08-275 (UNIMAT)	M/s Plasser		i) Min. dia on wheel tread.	730	914	60	40
				ii) Min. distance apart of bogie centres.	11500	11933		
				iii) Min. bogie wheel base.	1500	1830		
				i) Min. dia on wheel tread.	832	914	60	40
13	Ballast Regulator 56-3	M/s Kershaw USA		ii) Max. length of body.	11074	8540		
				iii) Max. length over headstocks.	11074	8540		
				iv) Max. length over side buffers.	12344	9810		
				i) Min. dia on wheel tread measured at 63.5mm from gauge face.	730	914	60	40
14	Multipurpose Tamping Machine.	M/s Plasser		ii) Min. rigid wheel base for bogie truck of any vehicle.	1800	1830		
				i) Min. dia on the tread of new carriage wheel, measured at 63.5mm from the wheel gauge face.	730	914	60	60
				ii) Max. distance apart of bogie centres for bogie vehicles 3250 mm wide.	15700	14785		
15	High Output Tamping Machine (09-3X) 20.0t axle load.	M/s Plasser	CHTM0 9-3XPI	iii) Min. rigid wheel base for bogie truck of any vehicle.	1500-Satellite bogie.			
					1800-Front and Rear			
					1956	1955	50	50
16	Utility Track Vehicle	M/s-BUELL	CUTV/B HELJ	i) Distance apart for centres of buffers	10516	8540		
				ii) Max Length of body or roof for 4-wheeler vehicle 3200 mm wide.				
17	Shoulder Ballast Cleaning Machine (FRM-85F)	M/s Plasser	CSBC-85F	i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face.	900	914	40	30
				ii) Max. distance apart of bogie centres.	16000	14785		
				iii) Max. Length of body or roof.	38200	21340		
				iv) Max. Length of under frames over head stocks	38200	21030		
				v) Max. Length over side buffers.	39440	22300		
				vi) Max. distance apart between any two adjacent axles.	14170	11890		
18	Worksite Tamper Model-VPR-02M	M/s -Mctex	TM/VPR -02M	i) Min. dia of wheel tread measured at 63.5mm from gauge face.	710.325	914	50	45
				ii) Minimum projection for flange of new tyre, measured from tread at 63.6mm from wheel gauge face.	27.675	28.50		
				iii) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.	32.31	28.5		
				iv) Max. Length over side buffers for bogie vehicle 3250mm wide.	23550	22300		

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension on as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
19.	Utility Track Vehicle	M/s- OEPL	CUTV/OPEL/H	i) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.	29.4	28.5	60	50
				ii) Max. rigid wheel base.	6500	6100		
				iii) Max Length of body or roof for 4 wheeled vehicle 3200 mm wide.	9000	8540		
				iv) Max. Length of under frames over head stocks.	9000	8540		
				v) Max. Length over side buffers	10270	9810		

(B) Infringement to Schedule of Dimensions 1676 mm Gauge (BG) Revised, 2004

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
1.	High Output Tamping Machine (09-3X) 18.5t axle load.	M/s Plasser	CHTM09-3XP2	<p>i) Min. dia on the tread of new carriage or wagon wheel, measured at 63.5mm from the wheel gauge face.</p> <p>ii) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.</p> <p>iii) Maximum height above rail level for floor of any unloaded vehicle.</p> <p>iv) Max. distance apart of bogie centres for bogie vehicles.</p> <p>v) Min. rigid wheel base for bogie truck of any vehicle</p> <p>vi) Max. Length of body or roof for bogie vehicles.</p> <p>vii) Max. Length over side buffers for bogie vehicles.</p>	<p>730-for Satellite bogie. 850- for Front and Rear bogies. 28.68.</p> <p>1370</p> <p>15700</p> <p>1500-for Satellite bogie. 1800-for Front and Rear bogies. 21700 22940</p>	914	50	65
2.	High Output Tamping Machine (09-3X) 21.0t axle load.	M/s Plasser	CHTM09-3XP	<p>i) Min. dia on the tread of new carriage or wagon wheel, measured at 63.5mm from the wheel gauge face.</p> <p>ii) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.</p> <p>iii) Max. height above rail level for floor of any unloaded vehicle.</p> <p>iv) Distance apart for centres of buffers</p> <p>v) Max. distance apart of bogie centres for bogie vehicles</p> <p>vi) Min. rigid wheel base for bogie truck of any vehicle.</p> <p>vii) Max. Length of body or roof for bogie vehicles.</p> <p>viii) Max. Length over side buffers for bogie vehicles.</p>	<p>730-for Satellite bogie. 1500-for Front and Rear bogies. 1955 15700</p> <p>1500-for Satellite bogie. 1800-for Front and Rear bogies. 21700 22940</p>	914	50	65

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
3.	Utility Track Vehicle with Mobile Crane.	M/s Phooltas	CUTVMC/P	i) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.	29.4	28.5	50	60
				ii) Distance apart for centres of buffers.	1956	1955		
				iii) Max. rigid wheel base	8000	6100		
				iv) Max. Length of body or roof for 4 wheeled vehicle.	11900	8540		
				v) Max. Length over side buffers for 4 wheeled vehicle.	13170	9810		
				i) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.	29.4	28.5	50	50
4.	Utility Track Vehicle.	M/s BEML	CUTVB	ii) Distance apart for centres of buffers.	1956	1955		
				iii) Max. rigid wheel base for four wheeled vehicles.	7000	6100		
				iv) Max. Length of body or roof for 4 wheeled vehicle.	10850	8540		
				v) Max. Length over side buffers for 4 wheeled vehicle.	12120	9810		
				i) Maximum height above rail level for floor of any unloaded vehicle.	1450	1345	50	50
				i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face.	850	914	50	60
5.	Dynamic track Stabilizer	M/s BHEL	CTSBI	ii) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.	28.64	28.5		
				iii) Maximum height above rail level for floor of any unloaded vehicle.	2100	1345		
				iv) Distance apart for centres of buffers	1955	1956		
6.	Ballast Regulating Machine Model-USP 2000 SWS	M/s Plasser	BRM/USP-2000SWS					



SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
7.	Point & Crossing Tamping Machine (UNIMAT 08-475-4S)	M/s Plasser	PCTM/08-475-4S	<p>i) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.</p> <p>ii) Maximum height above rail level for floor of any unloaded vehicle.</p> <p>iii) Distance apart for centres of buffers.</p> <p>iv) Min. rigid wheel base for bogie truck of any vehicle.</p> <p>v) Max. Length over side buffers for bogie vehicle.</p>	2946	28.50	50	65
8.	Lifting, Lining, Leveling and Tamping Machine Model-08-32C DUOMATIC	M/s Plasser	CLTM08-32CPI	<p>i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face.</p> <p>ii) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.</p> <p>iii) Distance apart for centres of buffers.</p> <p>iv) Min. rigid wheel base for bogie truck of any vehicle.</p>	850 28.64 1955 1800	914 28.50 1956 1830	50	50
9.	Dynamic Track Stabilizer (Model DSP-CST)	M/s Metex	DTSC8TMX	<p>i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face.</p> <p>ii) Maximum height above rail level for floor of any unloaded vehicle.</p>	860 1635	914 1345	50	50
10	Ballast Regulating Machine Model-PBR 400R	M/s Plasser	CBRM400RP	<p>i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face.</p> <p>ii) Max. thickness of flange of tyre, measured from wheel gauge face at 13 mm from outer edge of flange.</p> <p>iii) Distance apart for centres of buffers.</p> <p>iv) Max. Length of body or roof for 4 wheeled vehicle.</p> <p>v) Max. Length over side buffers for 4 wheeled vehicle.</p>	730 28.64 1955 9750 11020	914 28.50 1956 8540 9810	50	50

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
11	Rail Grinding Machine (RGI-72)	M/s Loram	CRG 72L	i) Maximum height above rail level for floor of any unloaded vehicle.	1683	1345	50	65
12	Ballast Regulating Machine Model-RPB-01	M/s Metex	CPRM/RPB-01MX	i) Maximum height above rail level for floor of any unloaded vehicle.	1700	1345	50	50
				ii) Distance apart for centres of buffers.	1955	1956		
13	Ballast Cleaning Machine	M/s BHEL	.....	i) Maximum height above rail level for floor of any unloaded vehicle.	1600	1345	50	50
				ii) Max. distance apart of bogie centres for bogie vehicles.	18000	15241		
				iii) Max. Length of body or roof for bogie vehicles	23840	21340		
				iv) Max. Length over side buffers for bogie vehicles.	25110	22300		
				v) Max. distance apart between any two adjacent axles	15900	12345		
				i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face.	732	914		50
15	Ballast Regulating Machine Model SPZ 210k	M/s Gemac China	CBRMG	i) Max. rigid wheel base for four wheeled vehicles.	7500	6100	50	60
				ii) Max. length of body or roof for 4 wheeled vehicles	13590	8540		
				iii) Max. Length over side buffers for 4 wheeled vehicle.	14780	9810		

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
16.	Multipurpose Tamping Machine Model-Unimat Split Lead MFI	M/s Plasser	CMTUSHP	<p>i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face.</p> <p>ii) Distance apart from centres of buffers.</p> <p>iii) Max. Length over side buffers for bogie vehicles.</p>	730	914	45	45
17.	Rail Borne Maintenance Vehicle (RBMV) Model- RBMV.01	M/s Phoolas	RBMVP	<p>i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face</p> <p>ii) Distance apart from centres of buffers.</p> <p>iii) Max. Length of body or roof for bogie vehicles</p>	952 1956 21337	914	105	105
18.	Utility Track Vehicle.	M/s SAN, Engg.	CUTV/SANEL/B	<p>i) Max. rigid wheel base for four wheeled vehicle</p> <p>ii) Max. Length of body or roof for four vehicle</p> <p>iii) Max. length over side buffers for four vehicles</p>	7000 11600 12670	6100 8540 9810	50	50
19	Utility Track Vehicle.	M/s Trident	CUTV/TA	<p>i) Maximum rigid wheel base for four wheeled vehicle</p> <p>ii) Maximum length of body or roof for 4-wheeled vehicle</p> <p>iii) Max. Length over side buffers for 4-wheeled vehicles.</p>	8000 12357 13150	6100 8540 9810	50	60
20	Tamping & stabilizer machine 09-3X Dynamic.	M/s Plasser	CHOISM/09-3XD/P5	<p>i) Min. dia of wheel tread measured at 63.5mm from gauge face</p> <p>ii) Max. height above rail level for floor of any unloaded vehicle</p> <p>iii) Max. distance apart of bogie centres for bogie vehicle</p> <p>iv) Min. rigid wheel base for bogie truck of any vehicle</p> <p>v) Max. length of body or roof for bogie vehicles</p> <p>vi) Max. length over side buffers for bogie vehicles</p> <p>vii) Max. distance apart between any two adjacent axles</p> <p>i) Min. rigid wheel base for bogie truck of any vehicle</p>	730 1380 15800 Main bogie 1800 Satellite bogie 1500 32800 34040 14000 1800	914 1345 14900 1830 21340 22300 12345 1830	75	70
21.	Muck Disposal Unit, MFS120	M/s Plasser	C/MDU-120/P				Nil	55

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension on as per SOD (mm)	Speed in kmph	
							Self-propelled	In train formation
22	High out-put Ballast cleaning machine RM-900	Plasser	CHBCM/RM-900P	Screen mill	1960	1345	50	65
				i) Max. height above rail level for floor of any unloaded vehicle	2000	1345		
				Excavating Unit	23800	14900		
				ii) Max. distance apart of bogies centre for bogie vehicle	27694	21340		
23	Multipurpose Tamper-275MFI	Plasser	MTM275P	iii) Max. Length of body or roof for bogie vehicles	21970	12345	50	65
				iv) Max. distance apart between any two adjacent axles.	1570	1345		
				i) Max. height above rail level for floor of any unloaded vehicle	16000	14900		
				ii) Max. distance apart of bogies centre for bogie vehicle	21625	21340		
24	Point and Crossing Tamping Machine CDC-16W & XCD-16W	CRCC, China	CTDC16W & CTXCD 16W	iii) Max. Length of body or roof for bogie vehicles	14170	12345	65	65
				iv) Max. distance apart between any two adjacent axles.	850	914		
				i) Min. Dia on the tread of new carriage or wagon wheel, measured at 63.5 mm from wheel gauge face.	28570	22300		
				ii) Max. Length over side buffers for bogie vehicles.	1800	1830		
				i) Min. rigid wheel base for bogie truck of any vehicle	30094	22300		
				ii) Max. length over side buffers for bogie vehicles				

SN	Name of the Machine	Make	Transportation Code	Infringement Description	Actual Dimension of Machine (mm)	Dimension on as per SOD (mm)	Speed in Km/h	
							Self-propelled	In Train formation
25	Shoulder Ballast Cleaning machine BS-550	CRCC China	SBCM BSS50C	i) Max. distance apart of bogies centre vehicle, ii) Min. rigid wheel base for bogie truck of any vehicle iii) Max. Length of body or roof for bogie vehicles iv) Max. length over centre buffers couplers or side buffers for bogie vehicles v) Max. distance apart between any two adjacent axles.	20000 1800 35270 36564 18200	5100 1830 21340 22300 12345	65 65	65
26	Multipurpose Tamper DDC-16W	CRCC	MTDDC16W	i) Min. rigid wheel base for bogie truck of any vehicle ii) Max. length over centre buffers couplers or side buffers for bogie vehicles	1800 28154	1830 22300	65	65
27	Point and Crossing Tamping Machine CDC-16 III	Genac	-----	No Infringement	---	---	50	65
28	Ballast Cleaning Machine (RM80-92-U)	M/s Plasser	i) C'BCM/RM80-92-U/PP3	ii) Minimum diameter on the tread of new carriage or wagon wheel measured at 63.5mm from wheel gauge face iii) Max. distance apart of bogie centres for bogie vehicle iv) Max. length of body or roof for bogie vehicles v) Max. length over side buffers for bogie vehicles vi) Max distance apart between any two adjacent axles.	900 22200 28300 29540 20370	914 14900 21340 22300 12345	60	60

Note: Speed of various track machines indicated in annexure 7.7 is for general information. Speed of track machines in field will be based on speed prescribed in the sanction for introduction by Railway Board.

